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# NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 01/08/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747

EXAMINER					
CHOL JACOB Y					
ART UNIT	PAPER NUMBER				
2885	•				

DATE MAILED: 01/08/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,188	02/27/2004	Yoshiki Takata	1248-0934PUS1	4585

TITLE OF INVENTION: SURFACE RADIATION CONVERSION ELEMENT, LIQUID CRYSTAL DISPLAY DEVICE, AND METHOD OF PRODUCING A SURFACE RADIATION CONVERSION ELEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including a below or directed oth tions.	or transmitting thing the Patent, advicewise in Block	ance or 1, by (a	E FEE and PUBLICATI ders and notification of n ) specifying a new corres	ON FEE (if requir naintenance fees wi pondence address;	red). E ill be and/or	Blocks 1 through 5 s mailed to the current (b) indicating a sepa	correspon rate "FEE	completed where dence address as ADDRESS" for
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10/787,188	02/27/2004	•		Yoshiki Takata		13	248-0934PUS1		4585
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DU	Æ	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	Ι	DATE DUE
nonprovisional	NO	\$1510		\$300	\$0		\$1810	C	04/08/2009
EXAM	INER	ART UNIT		CLASS-SUBCLASS					
CHOL, J.		2885		362-606000	•				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	nge of Correspond  "Indication form ed. Use of a Cust A TO BE PRINTE	omer  D ON 7	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be CHE PATENT (print or typ data will appear on the p 1 a substitute for filing an.	3 registered patent yely, e firm (having as a gent) and the name meys or agents. If n printed.	memb s of u so nam	er a 2 p to ie is 3	ocument h	nas been filed for
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	s SMALL ENTITY state	is. See 37 CFR 1.2		☐ b. Applicant is no long					
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) will not be a tes Patent and Tra	accepted demark	from anyone other than the Office.	he applicant; a regis	tered a	attorney or agent; or th	e assignee	or other party in
Authorized Signature					Date				
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BIRCH STEWART KOLASCH & BIRCH			CHOL J	ACOB Y	
PO BOX 747		ART UNIT PAPER NUMBER 2885			
FALLS CHURCI	I, VA 22040-0747				

DATE MAILED: 01/08/2009

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	
10/787,188	TAKATA, YOSHIKI	
Examiner	Art Unit	
IACOB V CHOI	2885	

— The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 9/24/2008.
- The allowed claim(s) is/are 1-14,16-18 and 20-41.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some\* c) None of the:
    - 1. Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date \_\_\_\_\_
    - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

# Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 9/4/2008
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_

/Jacob Y Choi/

Primary Examiner, Art Unit 2885

Application/Control Number: 10/787,188

Art Unit: 2885

# Examiner's Comment

Examiner acknowledges that the applicant has amended claims 1-8, 20, and 25-38 & canceled claims 15 and 19. The information disclosure statement (IDS) submitted on September 4, 2008 was filed after the mailing date of the Non-Final action on June 27, 2008. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Applicant's arguments, see pages 13-19, filed September 24, 2008, with respect to claims 1-14, 16-18, and 20-41 have been fully considered and are persuasive. The claim rejections - 35 USC § 102 & 103 of June 27, 2008 has been withdrawn.

## Examiner's Statement of Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the claims recite a liquid crystal display device having a surface radiation conversion element, a radiation source, a generally plate shaped element body, and a plurality of recessed formed in the surface of the element body or both the first and the second member planar side by closed adhesion forming completely closed spaces of certain size, wherein a number of the completely closed spaces near an edge of the element body near the radiation source is of greater density than density of the completely closed spaces in distance of the element body.

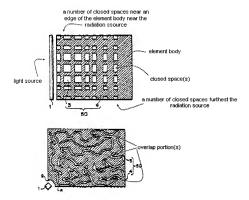
Because none of the references disclosed the details of the recesses from in element body or both the first and the second member planar side by closed adhesion forming completely closed spaces, nor is there any motivation to combine them in a Application/Control Number: 10/787,188

Art Unit: 2885

liquid crystal display device, the claims are deemed patentable over the prior art of record.

Yamashita et al. (USPN 7,004,610) teaches an element body (6 & 8) has a generally plate shape (FIG 3) constituted with a material having a larger electric permittivity than air outside the element body (column 10, lines 40-50; "... a composite layer 50 constituted of a low refractive index region (first refractive index region) 3 of a refractive index n1 and a high refractive index region of a refractive index n2 (second refractive index region) 4") and, in the inside of the element body (6 & 8), a plurality of completely closed spaces (3, 4, 50; FIGS 4, 19, & 20)of substantially uniform size are disposed whose electric permittivity is smaller than that of the material constituting the element body and whose surfaces opposite to a radiation surface are generally flat (Figure 1, 5, 6, 7), wherein a number of the completely closed spaces (3, 4, 50; FIGS 4, 19, & 20) near an edge of the element body near the radiation source is of greater density than the density of the completely closed spaces in a furthest portion of the element body (FIG 3).

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However, Yamashita et al. fails to specifically the recesses from in element body or both the first and the second member planer side by closed adhesion forming completely closed spaces.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACOB Y. CHOI whose telephone number is (571)272-2367. The examiner can normally be reached on Monday-Friday (10:00-7:00).

Application/Control Number: 10/787,188

Art Unit: 2885

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jong-Suk (James) Lee can be reached on (571) 272-7044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jacob Y Choi Primary Examiner Art Unit 2885

JC

/Jacob Y Choi/ Primary Examiner, Art Unit 2885